

Claims

- [c1] 1. An adjustable collimator, comprising:
 - an adjustable main body, having an interior space, a top portion, a bottom portion and an adjuster between said top portion and said bottom portion, said adjuster being adapted for adjusting a relative distance between said top portion and said bottom portion;
 - a first collimating element, fixed inside said interior space of said top portion to move with said top portion; and
 - a second collimating element, fixed inside said interior space of said bottom portion to move with said bottom portion.
- [c2] 2. The adjustable collimator of claim 1, further comprising a mask covering said adjustable main body below said first collimating element.
- [c3] 3. The adjustable collimator of claim 1, wherein said adjuster includes a rough adjustment element and a fine adjustment element.
- [c4] 4. The adjustable collimator of claim 1, wherein a shape of holes of said first collimating element is same as that

of said second collimating element.

- [c5] 5. The adjustable collimator of claim 1, wherein a shape of holes of said first collimating element is different from that of said second collimating element.
- [c6] 6. A sputtering apparatus for sputtering a target material onto an object, comprising:
 - a chamber, said target material, disposed inside said chamber;
 - a holding base, disposed inside said chamber opposite to said target material; and
 - an adjustable collimator, set between said holding base and said target material, said adjustable collimator including:
 - an adjustable main body, having an interior space, a top portion, a bottom portion and an adjuster between said top portion and said bottom portion, said adjuster being adapted for adjusting a relative distance between said top portion and said bottom portion;
 - a first collimating element, fixed inside said interior space of said top portion to move with said top portion; and
 - a second collimating element, fixed inside said interior space of said bottom portion to move with said bottom portion.

- [c7] 7.The sputtering apparatus of claim 6, further comprising a mask covering said adjustable main body below said first collimating element.
- [c8] 8.The sputtering apparatus of claim 6,wherein said adjuster includes a rough adjustment element and a fine adjustment element.
- [c9] 9. The sputtering apparatus of claim 6,wherein a shape of holes of said first collimating element is same as that of said second collimating element.
- [c10] 10. The sputtering apparatus of claim 6,wherein a shape of holes of said first collimating element is different from that of said second collimating element.
- [c11] 11.A sputtering apparatus for sputtering a target material onto an object, comprising:
 - a chamber, said target material being disposed inside said chamber;
 - a holding base, disposed inside said chamber opposite to said target material; and
 - an adjustable collimator, disposed on said holding base to cover said object so that said adjustable collimator moves with said holding base, said adjustable collimator including
 - an adjustable main body, having an interior space, a top

portion, a bottom portion and an adjuster between said top portion and said bottom portion, said adjuster being adapted for adjusting a relative distance between said top portion and said bottom portion;

a first collimating element, fixed inside said interior space of said top portion to move with said top portion; and

a second collimating element, fixed inside said interior space of said bottom portion to move with said bottom portion.

- [c12] 12. The sputtering apparatus of claim 11, further comprising a mask covering said adjustable main body below said first collimating element.
- [c13] 13. The sputtering apparatus of claim 11, wherein said adjuster includes a rough adjustment element and a fine adjustment element.
- [c14] 14. The sputtering apparatus of claim 11, wherein a shape of holes of said first collimating element is same as that of said second collimating element.
- [c15] 15. The sputtering apparatus of claim 11, wherein a shape of holes of said first collimating element is different from that of said second collimating element.